See reverse side for additional information

interagency Report Control No 0180-DOA-AN

OMB NO. 0579-0036

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 23-R-0023 CUSTOMER NO. FORM APPROVED

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

See Attached Listing

HEADQUARTERS RESEARCH FACILITY | Name and Address, as registered with USDA, include Zip Code

UNIVERSITY OF PENNSYLVANIA

(b)(6), (b)(7)c

(b)(2)High, (b)(7)f MAIL CODE 6303 PHILADELPHIA, PA 19104

(215) 898-7236

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

EC 0 1 2000

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthelic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F.  TOTAL NO.  OF ANIMALS  (Cols. C +  D + E)
4. Dogs	0	1	1069	0	1070
5. Cats	53	20	440	0	460
6. Guinea Pigs	0	32	179	14	225
7. Hamsters	. 0	0	0	0	0
8. Rabbits	0	77	116	0	193
9. Non-Human Primates	0	2	76	0	78
10. Sheep	0	7	230	0	237
11. Pigs	0	2583	499	0	3082
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS					~

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED

11/30/2006

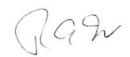
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(Replaces VS FORM 19-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

(AUG 91)



See reverse side for additional information.

interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

 REGISTRATION NO. 23-R-0023 CUSTOMER NO. 309

FORM APPROVED OMB NO 0579-0036

## OF RESEARCH FACILITY

(TYPE OR PRINT)

INDICATE COME OF PRINCY VANIA

(b)(6), (b)(7)c (b)(2)High, (b)(7)f MAIL CODE 6303 PHILADELPHIA, PA 19104 (215) 898-7236

REPORT OF ANIMALS USED BY A.	B. Number of	C. Number of	D. Number of animals upon	E. Number of animals upon which teaching.	F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMAL (Cols. C + D + E)
Goats	0	5	3	0	8
Ferrets	38	0	1	0	1
Gerbils	0	0	33	0	33
Sugar Gliders	0	0	5	0	5
Alpacas	0	2	0	0	2
Llamas	0	1	0	0	1
Horses + Ponies	0	95	44	0	139
Cow	0	345	1	0	346
Donkeys	0	0	1	0	1

<sup>1)</sup> Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION	BY HEADQUARTERS	RESEARCH	FACILITY (	OFFICIAL
(Chief Executive	e Officer or Legally R	esponsible Ir	stitutional	official)

hoertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

b6,b7c

DATE SIGNED

11/30/2006

FART I - HEADQUARTERS

(AUG 91)

<sup>2)</sup> Each principal investigator has considered alternatives to painful procedures.

<sup>3)</sup> This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

## Column E Explanation

This form is	intended as an aid	to comple	ting the Colum	nn E explan	ation.	It is not	an officia	al form	and its	use is
voluntary.	Names, addresses,	protocols,	veterinary car	e programs,	, and th	he like,	are not re	equired	as part	of an
explanation.	A Column E expla	anation mu	st be written so	as to be un	derstoc	od by lay	persons a	as well	as scien	itists.

1.	Registration Number: 23-R-0023	A.CEIASD					
		DEC 0 1 2005					
2.	Numberof animals used in this study.	1377.					
3.	Species (common name) Guinea pigs of animals used in this study.						
4.	Explain the procedure producing pain and/or distress.						
cor car sign hur is r bio and mea	nkin-hartley guinea pigs develop spontaneous osteoarthritis with age. relate the severity of arthritic lesions as visualized on MRI with clinical obtilage measurements to determine the degree of correlation. Groups of guins of arthritis as they age, were be imaged multiple times using MRI manely euthanatized using an IV overdoes of potassium chloride under genecessary for MRI to prevent animal movement during imaging. After euther chemical techniques were used to test the cartilage. The arthritis in these any signs of stiffness or lameness could not be treated because this was under the biochemical content of the cartilage specimens. If an actant to move due to progressive arthritis, it was euthanatized to prevent an Provide scientific justification why pain and/or distress could not be relieved.	servations and terminal bitinea pigs were observed funder general anesthesia neral anesthesia. General thanasia, cartilage was col guinea pigs develops sporould alter clinical observaty guinea pig became inapply further discomfort.	for clinical and were anesthesia lected and ntaneously ations and ppetent or				
	determine that pain and/or distress relief would interfere with test results see Item 6 below.)	s. (For Federally mandate	ed testing,				
aete	PI has done comprehensive literature searches with each approval and remined that treatment for arthritis, which is chronic and slowly progres ervations and to alter biochemical measurement.	re-approval of the protoco	ol and has er clinical				
6.	What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g. APHIS, 9 CFR 113.102):						
Nor	ie.						
	Agency CFR						